

Specifications — SW2 VGA DA2 A/AF/AF R

Video

Gain	Unity
Bandwidth	300 MHz (-3 dB)

Video input

Number/signal type	2 VGA-UXGA RGBHV, RGBS, RGsB*, RsGsBs*, HDTV component video*
Connectors	2 VGA female 15-pin HD
Nominal level	1.0 Vp-p for Y of component video 0.7 Vp-p for RGB and for R-Y and B-Y of component video
Minimum/maximum levels	Analog: 0.3 V to 1.5 Vp-p with no offset
Impedance	75 ohms
Horizontal frequency	15 kHz to 145 kHz
Vertical frequency	30 Hz to 170 Hz

Video output

Number/signal type	2 buffered VGA-UXGA RGBHV, RGBS, RGsB*, RsGsBs*, HDTV component video*
Connectors	2 VGA 15-pin HD female
Nominal level	1.0 Vp-p for Y of component video 0.7 Vp-p for RGB and for R-Y and B-Y of component video
Minimum/maximum levels	0.4 V to 1.8 Vp-p (follows input)
Impedance	75 ohms

NOTE *RGsB, RsGsBs, and HDTV component video inputs and outputs work in manual mode only. Autoswitching requires TTL level sync on pin 13 of the 15-pin HD connector.

Sync

Input type	RGBHV, RGBS, RGsB*, RsGsBs*, bi-level and tri-level sync
Output type	RGBHV, RGBS, RGsB*, RsGsBs*, bi-level and tri-level sync
Input level	1.7 V to 5.0 Vp-p
Output level	TTL: 5.0 Vp-p, unterminated
Input impedance	510 ohms
Output impedance	50 ohms
Max. input voltage	5.0 Vp-p
Max. rise/fall time	40 ns
Polarity	Positive or negative (follows input)

Audio

Gain	Unbalanced output: 0 dB; balanced output: +6 dB
Frequency response	20 Hz to 20 kHz, ± 0.05 dB
THD + Noise	0.03% @ 1 kHz at nominal level
S/N	>90 dB at maximum output (unweighted)
Crosstalk	<-65 dB @ 20 kHz, <-80 dB @ 1 kHz and below 60 Hz
Stereo channel separation	>80 dB @ 1 kHz
CMRR	>75 dB @ 20 Hz to 20 kHz

Audio input

Number/signal type	2 stereo, unbalanced
Connectors	(2) 3.5 mm female stereo jacks
Impedance	>10k ohms, balanced/unbalanced, AC coupled
Nominal level	-10 dBV (316 mVrms)
Maximum level	+8 dBV, (balanced or unbalanced) at 1% THD+N

NOTE 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV \approx 2 dBu

Audio output

Number/signal type	1 stereo, balanced/unbalanced
Connectors	(1) 3.5 mm captive screw connector, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Gain error	±0.1 dB channel to channel
Nominal level	-2 dBu balanced, -10 dBV (316 mVrms) unbalanced
Maximum level (Hi-Z)	>+16 dBu, balanced; >+8 dBV, unbalanced at 1% THD+N
Maximum level (600 ohm)	>+10 dBm, balanced; >+4 dBV, unbalanced at 1% THD+N

Control/remote — switcher

Contact closure	Momentary, on a 3.5 mm captive screw connector
Contact closure pin configurations	1 = Input #1, 2 = Input #2

General

Power

SW2 VGA DA2 A/AF's external power supply	100 VAC to 240 VAC, 50/60 Hz, external; to 12 VDC, 1 A power supply, regulated
SW2 VGA DA2 A/AF's power input requirements	12 VDC, 0.2 A
SW2 VGA DA2 AF R.....	100 VAC to 240 VAC, 50/60 Hz, 12 watts, internal
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling	Convection, unvented

Rack mount

SW2 VGA DA2 A/AF	Yes, with optional 1U, 9.5" deep rack shelf, part #60-190-01 (RSU 129) or 60-604-01 (RSB 129); 1U, 6" deep rack shelf, part #60-190-10 (RSU 126) or 60-604-10 (RSB 126); or VersaTools® 1U, 3.5" deep rack shelf, part #60-190-20 (RSV 123) or 60-604-20 (RSB 123) Furniture mountable with included under-desk mounting kit, part #70-077-01 (MBU 125) Attachable to a projector mount with optional PMK 200 projector mount kit, part #70-077-04
SW2 VGA DA2 AF R.....	Yes, with included rack mounting kit, part #70-485-01 (MBD 123) Furniture mountable with optional VersaTools under-desk mounting kit, part #70-212-01 (MBU 123)

Enclosure type..... Metal

Enclosure dimensions

SW2 VGA DA2 A/AF	1.0" H x 8.75" W x 3.0" D 2.5 cm H x 22.2 cm W x 7.6 cm D (Depth excludes connectors.)
SW2 VGA DA2 AF R.....	1.75" H x 17.4" W x 3.0" D (1U high, full rack wide) 4.4 cm H x 44.2 cm W x 7.6 cm D (Depth excludes connectors.)

Product weight

SW2 VGA DA2 A/AF	1.1 lbs (0.5 kg)
SW2 VGA DA2 AF R.....	2.6 lbs (1.2 kg)

Shipping weight

SW2 VGA DA2 A/AF	4 lbs (2 kg)
SW2 VGA DA2 AF R.....	7 lbs (4 kg)

Vibration..... ISTA 1A in carton (International Safe Transit Association)

Listings..... UL, CUL

Compliances..... CE, FCC Class A, VCCI, AS/NZS, ICES

MTBF..... 30,000 hours

Warranty..... 3 years parts and labor

Specifications — SW2 VGA DA2 A/AF/AF R (cont'd)

NOTE *All nominal levels are at $\pm 10\%$.*

NOTE *Specifications are subject to change without notice.*

(7.53-110607-D5)